S/057/61/031/004/015/018 B125/B202

Coefficients of mutual diffusion ....

which is obtained from the rigorous kinetic theory. In this formula  $D_{12}$  denotes the coefficient of the mutual diffusion  $(cm^2/sec)$ ; T - the absolute temperature; k - the Boltzmann constant,  $M_1$ ,  $M_2$ ,  $\sigma_1$ ,  $\sigma_2$ ,  $\varepsilon_1$ ,  $\varepsilon_2$  the molecular weights, the collision diameters  $(\Lambda)$  and the potential parameters  $({}^{O}K)$  of the diffusing gases;  $\Omega(T_{12})$  the collision integral;  $\Omega$  the correction of second approximation;  $\Omega$  = 26.280 a constant coefficient. The quantities  $\sigma_1$ ,  $\sigma_2$ ,  $\varepsilon_1$ ,  $\varepsilon_2$  were calculated from analogous

formulas for the viscosity coefficients of the pure components by using the experimental values of the viscosity coefficients and their temperature dependence. The theoretical values of the coefficients of mutual diffusion (column 9 of the Table) were calculated from the same Eq. (1), however, by using the empirical coefficient

B = 30.3 - 6.96  $\left[\frac{M_1 + M_2}{M_1 M_2}\right]^{1/2}$  (2) suggested by C. R. Wilke a. C. Y. Lee (Ind. Eng. Chem., 47, 6, 1255, 1955). Column 6 contains the experimental

Card 2/7

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001654020018-4"

21549

Coefficients of mutual diffusion ...

S/057/61/031/004/015/018 B125/B202

coefficients of the mutual diffusion as referred to standard conditions (p - 760 mm Hg, T - 273°K). Column 7 contains the experimental values obtained by various methods. The reduction of the results of the present study and also the results obtained by other authors led to formula

The experiments were made with commercially pure gases. By purifying SF the coefficient of the mutual diffusion was reduced by not more than 0.5%. Conclusions: the results obtained by the optical method of measurement are in good agreement with the results of the measurements made by other authors and other methods. The method of measurement described in the present paper permits the determination of the coefficient of mutual diffusion with high accuracy. This method is absolute and requires no calibration and no device for analysis. On the average, the theoretical results obtained deviate from the experimental results by 8% at the maximum. The theoretical values determined by the empirical coefficient B suggested by Wilke and Lee deviate from the experimental values by 5.5% at the maximum. Hence, this empirical coefficient permits a certain improvement of the accuracy of

Card 3/7

21549

Coefficients of mutual diffusion ...

S/057/61/031/004/015/018 B125/B202

calculation of the coefficients of mutual diffusion. The accuracy of calculation can be increased by making the rules governing the interaction between the various molecules more precise. For this purpose, the temperature dependence of the coefficients of mutual diffusion must be further increased. There are 1 table and 6 references: 2 Soviet-bloc and 4 non-Soviet-bloc. The two most recent references to English-language publications read as follows: T. O. Hirschfelder, G. F. Curtiss, R. B. Bird, Molecular Theory of Gases and Liquids. New York, 1954. C. R. Wilke a. C. Y. Lee. Ind. Eng. Chem., 47, 6, 1255, 1955.

ASSOCIATION:

Ural'skiy politekhnicheskiy institut im. S. M. Kirova

Sverdlovsk (Ural Polytechnical Institute imeni S. M. Kirov

Sverdlovsk)

SUBMITTED:

May 3, 1960

Card 4/7

The order of approximation of ...

S/022/62/015/002/002/009 D218/D302

$$f(z) = \sum_{n=0}^{\infty} a_n P_n(z), z \in G$$

where  $P_n(z)$  are the polynomials referred to above and the series converges uniformly in G when the above conditions are satisfied. The author derives three inequalities which give the degree of ap-

proximation of f(z) by  $\sum_{0}^{N} a_{n}P_{n}(z)$  where N is a finite number, i.e.

inequalities involving  $f(z) - \sum_{0}^{N} a_{n} P_{n}(z)$  on the L.H.S., and N

and other parameters on the R.H.S. Series involving orthogonal polynomials, which are of the form given by Eq. (2), are natural generalizations of Taylor series in the complex domain. The present results constitute an extension of some of the convergence theorems

Card 2/3

suyetin,	C.K.						
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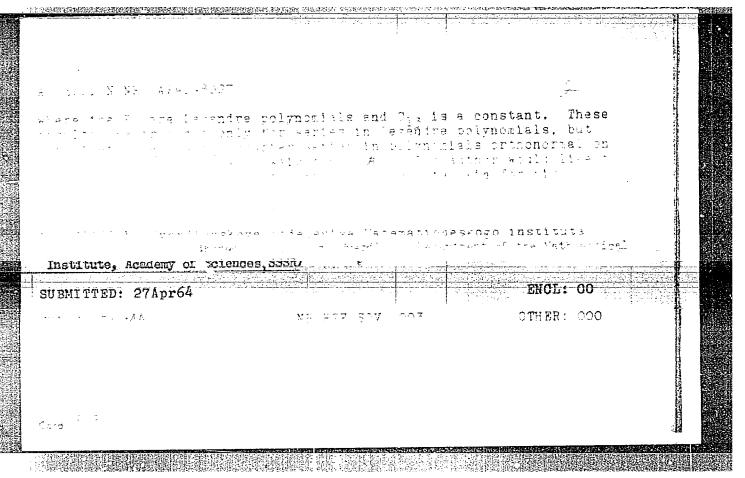
AUTHORS: Suyetin, P.K.

TITLE: On representation of continuous and differentiable functions
by Fourier series in Legendre Folynomials

JURNOL AN JOSE, LOKINIY\*, v. 158, no. 5, 1764, 1275-1277

THIC TARD Fourier series, Legendre polynomials, differentiable
incrine prince on a polynomials, rest analysis.

ACCESSION NR: APPOARS | Any function f/x\* that satisfies a Lipshitz
and the expanded in



SUYETIN,	P.K.
	Some asymptotic properties of orthogonal polynomials in the complex region. Dokl. AN SSSR 164 no.2:285-288 S '65. (MIRA 18:9)
	1. Sverdlovskoye otdeleniye Matematicheskogo instituta im. V.A. Steklova AN SSSR. Submitted February 19, 1965.

L 36477-66 EWI(d) ijr(c)		800
ACC NR: AP6027049 SOURCE CODE: UR/0042/66/021/002/0041	/0088	
AUTHOR: Suyetin, P. K.	26	
ORG: none		
TITIE: General properties of polynomials orthogonal along a boundary SOURCE: Uspekhi matematicheskikh nauk, v. 21 np. 2 1966 / 1-88		
SOURCE: Uspekhi matematicheskikh nauk, v. 21, no. 2, 1966, 41-88 TOPIC TAGS: polynomial, asymptotic property, analytic function, series, orthog	onal	
function	onar	
ABSTRACT: The article presents a comprehensive survey of the asymptotic		
properties of polynomials orthogonal along a boundary for the case of various		
conditions imposed on the weight function and the boundary. Using these properties, the author studies the expression of analytic functions by series		
expansion in orthogonal polynomials. It turns out that the classes of analy-		
tic functions which can be expressed by such series are in each case fixed by the properties of the weight function and the boundary. Various formulas and		-
evaluation for the above-mentioned polynomials are derived for various types		
of weight functions. The article is divided into four chapters: 1 - Secondary		,
Results; 2 - Asymptotic Properties of Orthogonal Polynomials; 3 - Orthogonal Polynomial Series; and 4 - Certain Results Concerning the V.A. STEKLOV Problem.		
Almost all the results presented in the present survey were published earlier.		
possibly in a less general form, by various authors. Orig. art. has: 142 form [JPRS: 36,364]	ulas.	
SUB CODE: 12 / SUBM DATE: 28Jul64 / ORIG REF: 047 / OTH REF: 007		
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	Salve in the salve	in an article

s/862/62/001/000/009/012 E202/E592

AUTHOR: Suyetin, P. Ye.

TITLE: Optical method of measuring the coefficient of

mutual diffusion of gases

SOURCE: Teplo- i massoperenos. t.1: Teplofizicheskiye

kharakteristiki materialov i metody ikh opredeleniya. Ed. by A. V. Lykov and B. M. Smol'skiy. Minsk, Izd-vo

AN BSSR, 1962, 188-190

TEXT: In apparatus using a light source and a system of two diffraction gratings, one of which is the negative of the other, measurements of mutual diffusion of gases are carried out indirectly by measuring the quantity of light penetrating through the above grating system when diffusion takes place. When diffusion is absent no light passes through the system since the alignment of the gratings obliterates the beam of light. The measurement of diffusion may be carried out continuously, the lapse of time being marked on the same moving film which records the trace of the diffusion process. Diffusion is measured in terms of density gradient. Betails of the experimental set-up and procedure are given, together with tabulated values of the Card 1/2

s/862/62/001/000/009/012 Optical method of measuring ... E202/E592 coefficients of mutual diffusion for the following pairs of gases: H<sub>2</sub> - He; H<sub>2</sub> - N<sub>2</sub>; H<sub>2</sub> - Air; H<sub>2</sub> - Ar; H<sub>2</sub> - CO<sub>2</sub>; H<sub>2</sub> - SF<sub>6</sub>; He -  $C_2H_2$ ; He -  $N_2$ ; He - Air; He -  $C_2$ ; He - Ar; He -  $C_2$ ; He -  $SF_6$ ;  $N_2$  -  $CO_2$ ;  $N_2$  -  $SF_6$ ; Air -  $CO_2$ ; Air -  $C_2H_2$ ; Air -  $SF_6$ ;  $0_2 - C_2H_2$ ;  $0_2 - CO_2$ ;  $0_2 - SF_6$ ; Ar  $- C_2H_2$ ; Ar  $- CO_2$ ; Ar  $- SF_6$ ; The results given by the above method agree well CO - SF 6. The results given by the above method agree well with the values given in the Kaye and Laby 'Table of Physical and Chemical Constants". The method does not require calibration and analytical There are 1 figure and 1 table. techniques. Ural'skiy politekhnicheskiy institut imeni ASSOCIATION: S.M.Kirova (Ural Polytechnical Institute imeni S. M. Kirov) Card 2/2

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	Interdiffusion coefficients for cetical method. Zhur. tekh. fiz. 33			
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SUYETIN, P.Ye.; VOLOBUYEV, P.V.	
Volumetric differential manometer for measuring small pressure differences. Zav.lab. 30 no.3:374 '64. (MIRA 17:4)	)
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#### "APPROVED FOR RELEASE: 03/14/2001

#### CIA-RDP86-00513R001654020018-4

ACCESSION NR: AP4020591

5/0057/64/034/003/0576/0576

AUTHOR: Nevolin, V.K.; Suyetin, P.Ye.

TITLE: Surface ionization of potassium incident to diffusion through a Globar rod

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.3, 1964, 576

TOPIC TAGS: surface ionization, potassium ionization, potassium diffusion, diffusion through Globar, diffusion through carbon, Globar, potassium

ABSTRACT: Hitherto surface ionization of alkali metals diffusing through non-metallic porous materials has not been studied. Yu. Ya. Stavisskiy and S. Ya. Lebedev (ZhTF,
30,1222,1960) investigated surface ionization of Cs diffusing through tungsten.)
Accordingly, in the present work there was investigated the temperature dependence
of surface ionization of potassium diffusing out from the hollow core of a Globar
rod (resistance element) manufactured by VEB Electrokohle Lichtenburg (German Democratic Republic). The rod was colored light green and had a porosity of 16%; the
wall thickness was 2 mm. The rod was heated by passage of direct current; the temperature was determined from the value of the current after calibration with the
aid of a thermocouple. Secondary electrons were suppressed by a wide mash grid. The

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ACC.NR: AP402	0591			·		
ion current we trinsic ion of the vacuum was consumption (	as measured by mission, the roos better than 3 not specified) at a K vapor proof 1800°K was a	i was outgass x 10 <sup>-5</sup> mm Hg are presented assure of abo	The result in a figure out 1.6 x 10	s for two rate (see Enclose)	ites of potassiusure). The ion c	m ur-
ASSOCIATION: Institute)	Ural'skiy polit	ekhnicheskiy	institut im.	S.M.Kirova	(Ural Polytechni	c
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CCESSION NR: AP4040318		•	. •			
AUTHOR: Suyetin, P.Ye.; Volobuyev, P.	.V.			•		
ritle: The pressure effect in gas d	111us1ca	1964,	107-1114			
TITLE: The pressure effect in gas SOURCE: Zhurnal tekhnicheskoy fiziki TOPIC TAGS: diffusion, gas diffusion	n, pressure de	pendenc	e, argon, helium	, hydrogen,		
pressure gage		ue to t	he more rapiu u	v willer		
the lighter gas 186,4724,549	,1960; 102,	quantit	tatively for are	OIL 0110		
B.A. Mason (1.1.)	and 11,000	088 88C	tion 5.5 Cm rone		<b>b</b>	
The dillusion two nickel plate	DESERT CONTROL	ra gage	embroaing fan	an the		
lary tube joining two nickel plated that the pressure was measured with a discs of beryllium bronze 64 mm in electrical capacity of these discs	diameter aim due to the fl	exure (	f one of them u	Mer the		٠
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ACCESSION NR: AP4040318

fluence of the differential pressure shifted the frequency of the oscillator, and the change in the beat frequency between this and another oscillator was observed. The sensitivity of this instrument was 5.35 x 10-4 mm Hg per cycle/sec, and the calibration error was ±3%. The pressure gage was mounted with the discs vertical and their centers in the same horizontal plane as the diffusion capillary. The apparatus was all of heavy aluminum and brass construction, which facilitated thermal equilibration. It was mounted in an air thermostat, the temperature of which was measured with a thermometer calibrated to 0.05°C. The theory of the gas diffusion pressure effect is developed for comparison with the experimental results. The differential pressure should rise to a maximum and then decrease very slowly as the diffusion process approaches completion. For all three pairs of gases the differential pressure reached its maximum in 5 to 15 minutes and remained steady at this value thereafter. The experimental curves of pressure versus time agreed with the theoretical curves. The maximum pressure differential was found to be 7.0 ± 0.3. 13.2 ± 0.3, and 17.2 ± 0.4 micron Hg for the pairs helium and hydrogen, argon and helium, and argon and hydrogen, respectively; the corresponding theoretical figures are 6.4, 15.6 and 23.2. The authors ascribe the moderate differences between the theoretical and experimental values to the approximate nature of the theory rather than to experimental error. Orig.art.has: 14 formulas, 5 figures and 1 table.

Card 2/3

#### "APPROVED FOR RELEASE: 03/14/2001

#### CIA-RDP86-00513R001654020018-4

8/0057/64/034/006/1115/1123 ACCESSION NR: AP4040319 AUTHOR: Ivakin, B.A.; Suyetin, P.Ye. TITLE: Investigation of the temperature dependence of the diffusion coefficients of gasos SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.6, 1964, 1115-1123 TOPIC TAGS: diffusion, gas diffusion, temperature dependence, molecular interaction, air, argon, carbon monoxide, carbon dioxide, hydrogen, helium, nitrogen, sulfur ť. compound ABRITACT: The diffusion coefficients of 18 pairs of gases were measured over the temperature range from 290 to 470°K by an optical method described elsewhere (P.Ye. Suyetin, G.T. Shchegolev and R.A. Klestov, ZhTF 29, No. 8, 1959; P. Ye. Suyetin and B.A. Ivakin, Ibid. 31, No. 4, 1961; B. A. Ivakin and P. Ye. Suyetin, Ibid. 33, No. 8, 1963). The pairs investigated were He-air and all the comginations except A-CO, A-N2 and CO-N2 of the following gases: A, CO, CO2, H2, He, N2 and SF6. The apparatus was placed in a heavily constructed thermostatic chamber the temperature of which was controlled to 10.10C. A temperature difference of about 10C was maintained between the top and Card 1/3

ACCESSION NR: AP4040319

bottom of the apparatus to prevent convection. Each measurement was repeated 10 times, and the errors ranged between 1.5 and 2.5%. The results are tabulated. The Lennard-Jones potential, a modified Buckingham potential, and a simple power law repulsive potential were fitted to the diffusion coefficient data, and the parameters are tabulated for each pair of gases. The parameters describing the intermolecular potentials were also calculated from the potentials between like molecules obtained from viscosities or second virial coefficients. The usual averaging procedure was employed, in which the arithmetic mean of the ranges and the geometric mean of the potentials are taken. The forces between unlike molecules calculated in this way did not agree well with those obtained directly from the diffusion data. The diffusion coefficients were calculated from the intermolecular potentials for temperatures up to 1100°K for five pairs of gases for which the relevant experimental data are available. The values calculated from the intermolecular potentials obtained directly from the lower temperature diffusion data were in satisfactory agreement with experiment; those calculated from intermolecular potentials obtained by averaging the potentials for like molecule interactions were not. It is interesting that better agreement with experiment was obtained with the simple power law repulsive potential than with either the Lennard-Jones or the Buckingham potential. Orig.art.has: 11 formulas, 1 figure and 3 tables.

Card 2/3

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001654020018-4

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SUYETIN, P.Ye.; IVAKIH, B.A. (Sverdlovsk)

On a certain problem in three-component diffusion. Zhur. fiz. khim. 38 no.3:576-578 Mr '64. (MIRA 17:7)

1. Ural'skiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001654020018-4"

"Baroeffect with mutu	al gas diffusion.	ıı.			
report submitted for May 1964.			Mass Transfer,	Minsk, 4-12	
Ural' Polytechnic Ins	t.				
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L 331 7-65 EMP(m)/EPF(c)/EMT(1)/EWT(m,/FCS(k), Fr-4 IJP(c) JD	/EMP(b)/EMA(d)/EMP(t)/EMA(I) Pd-I/	
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L 3621-66 EWF(1)/EWP(m)/EWA(d)/FCS(k)/EWA(1)

ACCESSION NR: AP5024053

UR/0057/65/035/009/1689/1691 533.15

AUTHOR: Suyetin, P. Ye.; Volobuyev, P. V.

TITLE: On the thermodynamic theory of the baroeffect

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1689-1691

TOPIC TAGS: irreversible thermodynamics, gas diffusion, gas flow, pressure effect, back pressure

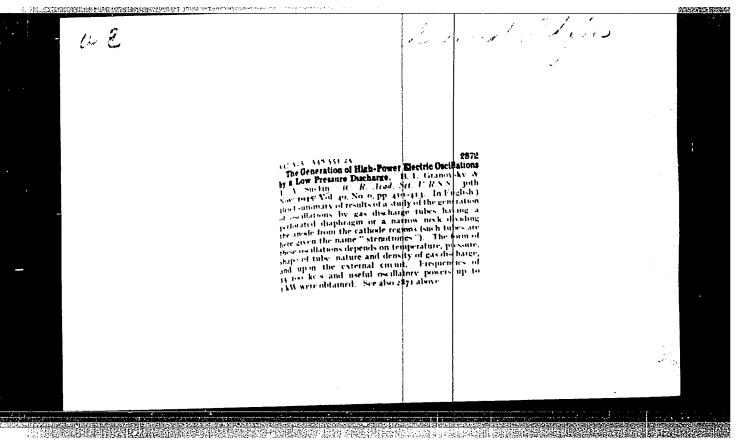
ABSTRACT: If two large vessels containing different gases at the same temperature and pressure are joined by a capillary, diffusion will take place in the capillary at different rates in the two directions, with the result that a pressure difference will develop between the two vessels and there will be a hydrodynamic flow in the capillary. If the concentration equilibration time is long compared with the pressure equilibration time, there will be a prolonged quasi-equilibrium condition in which an approximately constant pressure differential will be maintained between the two vessels. This quasi-equilibrium pressure differential constitutes the "baroeffect", which the authors have previously investigated both experimentally and theoretically (ZhTF, 34, No.6, 1964; 35, No.2, 1965). The quasi-equilibrium condition is a steady state of the first order in the terminology of S.R.deGroot

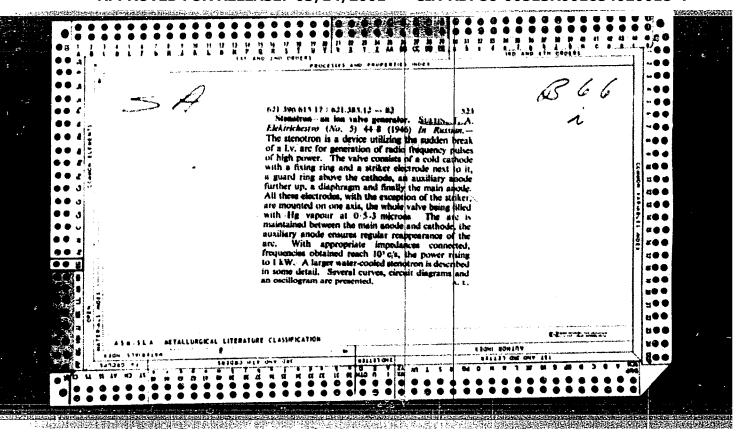
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ACCESSION NR: AP502	24053			Anna Maria Mari Anna Maria Mari		
dynamics and a form diffusion constant, radius of the capil kinetic considerati	Irreversible Processes, In parceffect is discussed with the processes of the viscosity, the moleculary. The authors have process, but the thermodynamic on which it must be based.	th the more pressurular wei reviousl	ethods of i e differenc ghts of the y derived t ent gives a	rreversi e in ter gases, his form clearer	ble thermoms of the and the ula from	0-
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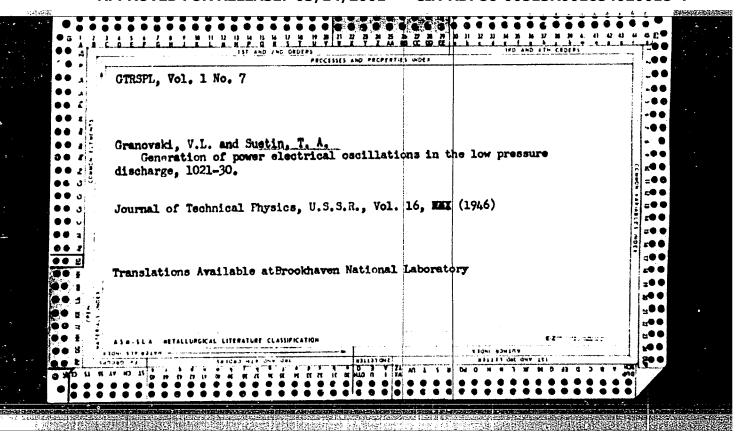
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AUTHOR: Fedo	rov, Ye.B.; Ivakin,	B. A.; Suyetin, P. Ye.	7/ 8
ORG: Ural Po	lytechnic Institute	im. S.M. Kirov, Sverdlov	sk (Ural'skiy politekhnicheski
institut)			
TITLE: Measu technique	rement of the mutua	l diffusion constants of	gases with an optical
SOURCE: Zhurr	nal tekhnicheskoy f	iziki, v. 36, no. 3, 19 <del>6</del> 6	E, 569-5 <b>7</b> 0
TOPIC TAGS: g	gas diffusion, helit	um, argon, air, krypton,	fluorine compound,optic
ABSTRACT: The	annaratus for meas	Suring and diffusion cons	tants by an optical technique,
described else	where by P. Ye. Suy	yetin, G.T. Shchegolev, an	d R.A. Klestov (ZhTF, 29, No. 8,
improvements.	,Ivakin and P.Ye.Suj which are described	yetin (ZhTF, 34, No.6,196 d briefly. will make it c	4), has been improved. The cossible to measure diffusion
constants with	ı greater ease and a	accuracy than before, and	at pressures far from atmos-
at room temper	improved apparatus i cature and atmospher	hasobeen employed to meas ric pressure of the follo	ure the diffusion constants wing pairs of gases: He-Ar,
He-air, He-SF6	, He-Kr, Hg-Kr, and	Ar-Kr. The results are	tabulated and compared with iffusion constants calculated
Card 1/2			UDC: 533.15
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with	Lennard	-Jones pote	ential	s deriv	ed from	visc	osity m	easure	ents. T	ne pres	ent
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AUTHOR:	Volobuyev, P.V.	; Suyetin, P.Y	8,	ļ		53	3     1
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ond, non						B	<b>,</b>
TITLE: K	lnetic theory	treatment of	the baroeffe	ct			
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TOPIC TAGS	: gas diffus	ion, pressure	effect, iso	thermal fl	ow, kinetic t	heory, slip	·
ABSTRACT:	The authors	employ the rig	rorous kinet	ic theory	mothode of Do	ales — 4 4.1 -	
the parcer	fect (the pre	ssure gradient	arising in	isotherma	l diffusion of	f a binary	PAR
mixture in	a capillary)	<ul> <li>The results</li> </ul>	of the pre-	sent calcu	lations diffe	r from those	ا م
improved e	xpression for	treatment of the slip velo	the authors	(ZnTF, 35	, No.2, 1965)	mainly in a	an
observed 1	n the diffusion	on of two gase	s of equal	molecular v	weight provide	ed the mole	- 11
cutes (Leg	arded as rigi	i spherer) hav	e different	diameters.	The baroef:	fect was	
Ar-He, and	He-No mixture	atures and pre es, using the	ssures irom apparatus de	l to 700 i	m Hg in H <sub>2</sub> -Sl	6, H <sub>2</sub> -D <sub>2</sub> ,	
(ZhTF, 34,	No.6, 1964),	and also in H	-He mixture	es with car	illaries of a	lifferent	
lengths.	The experiment	al results we	re in good	greement	with calculat	lons perform	med 📙
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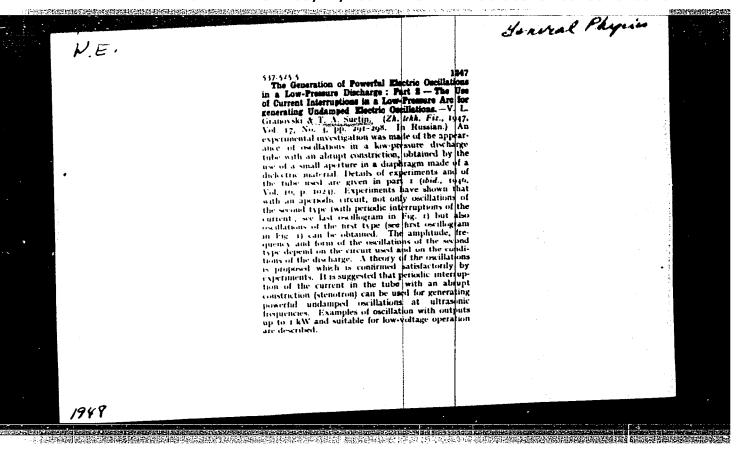


	SUYETIN, T. A.
	"Generation of Powerful Electrical Oscillations in the Low Pressure Discharge.  I. Periodical Switching Out of the Current in the Discharge Space with a Local Narrowing," Zhur. Tekh. Fiz., 16, No. 9, 1946. Mbr., All-Union Electro-Technical Inst., -1946
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SUFFIN, T.; POLENOV.	A, E.;	,			. <sub>.</sub> . <del></del>		
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		nto the circuit does not does discharge regime. The post of fluction of fluct elements if they be present and frequency of fluctuation the size of the positive	td)		"Zhur Tekh Fiz" Vol XVII, No 7	"The Effect of Electrical Ci- LOW Pressure Arc Discharges, Electro-Technical Institute,	, Electric Oscillator
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		not decrease The positive fluctuations resent in the stuation are sitive termin		(A)	<b>elec</b>	m Oscil Suetin, 9 pp	
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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001654020018-4" SUETIN, T. A.

"A Case Where Current and Voltage in Rarefied Gas Are of Opposite Directions" Dok. AN, 96, No. 1, 11, 1947; All-Union Electrotechnical Institute, c-1946-.

SUYETIN, T. A. (Cand. of Tech. Scie.	)		
"Cascade Burning of the Arc in M reported in the article "First All-Un Rectifiers", Elektrichestvo, No. 11,	ion Scientific and Techni	thods of Dealing eith It", ical Session on Mercury-Arc	
Abatract W-9395, 10 Apr 1950.			

SUYETIN, T. A.

"Sealed Mercury-Arc Rectifiers," pp 67-75

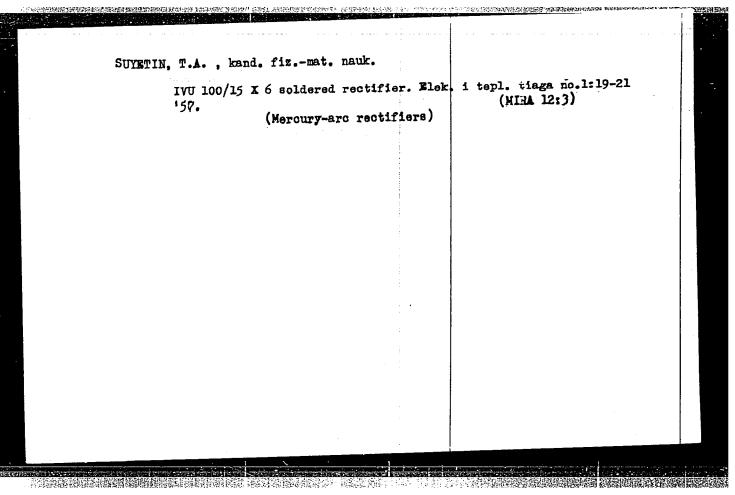
Abst: Various types of rectifiers are examined (multianode, single-anode, ignitrons, and excitrons), and a short description of some rectifiers and a combined table of all types of rectifiers developed by the All-Union Electrotechnical Institute are given.

SOURCE: Raboty MER SSSR po Mekhan, i Avtomatizatsii Narodn, Khoz, (Work of the Ministry of the Electrical Engineering Industry USSR on Mechanization and Automation in the National Engonomy), Part 3, Moscow, TsETI, 1956

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Hermiry-Al	undidat fiziko-ma oc rectifier of a	new type for	traction substat	ions. EA 10:7)	
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105-58-3-22/31

AUTHOR:

Suyetin, T. A., Candidate of Physical-Mathematical Sciences

TITLE:

Type IVS -200/2 Ignitrons (Ignitron | MBC-200/2)

PERIODICAL:

Elektrichestvo, 1958, Nr 3, pp. 80 | 82 (USSR)

ABSTRACT:

The ignitron IVS-200/2 is widely used at present. In the Laboratory for Soldered-in Mercury-arc Rectifiers of the All Union Institute for Electrical Engineering Imeni Lenin several variants of this ignitron were developed, that is to say, for medium amperages of 200 A and an opposed voltage of 2500 V. Here, the model is described, which has stood its test in practical operation and has found wide application. The ignitron IVS- 200/2 possesses two igniters and a subsidiary anode, which not only facilitates the ignition of the main arc, but also permits a regulation of the rectified voltage with the help of a control grid and not by a change of the ignition noment of the cathode spot by the igniter. The cooled rectifier parts are produced from stainless steel for the purpose of preventing a diffusion of hydrogen from the water

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001654020018-4

105-58-3-22/31

Type IVS -200/2 Ignitrons

chamber into the cylinder. The igniters are at present produced on the basis of boron carbide, the ignition current not exceeding 12 A and the ignition voltage not 350 V. The life of such igniters can be estimated to be at least 20 000 hours. When two igniters are used, it can be assumed with certainty that the life of the ignitron amounts to at least 5 years. The weight of the ignitron amounts to 26 kg. Technical data: Medium anode current 200 A, excess current load for 10 minutes - 265 A. for 2 minutes 320 A, for 30 seconds - 450 A. Maximum inverse. voltage - 2500 V, the potential drop in the arc not exceeding 16 V, negative displacement at the grid-150 V grid current (amplitude) -150 mA. Current in the subsidiary anodes - 1,5 to 2,0 A. Cooling by water rotation cooling. Cooling water temperature - 20 to 35 °C. Water consumption at  $\Delta t$  = 8 ° - 6 liters/minute. There are 3 figures.

ASSOCIATION:

Vsesoyuznyy elektrotekhnicheskiy institut imeni Lenina (All-Union Institute for Electrical Engineering imeni Lenin)

SUBMITTED:

November 5, 1957

Card 2/2

9(4) SOV/112-59-5-9809

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, Nr 5, p 197 (USSR)

AUTHOR: Suyetin, T. A.

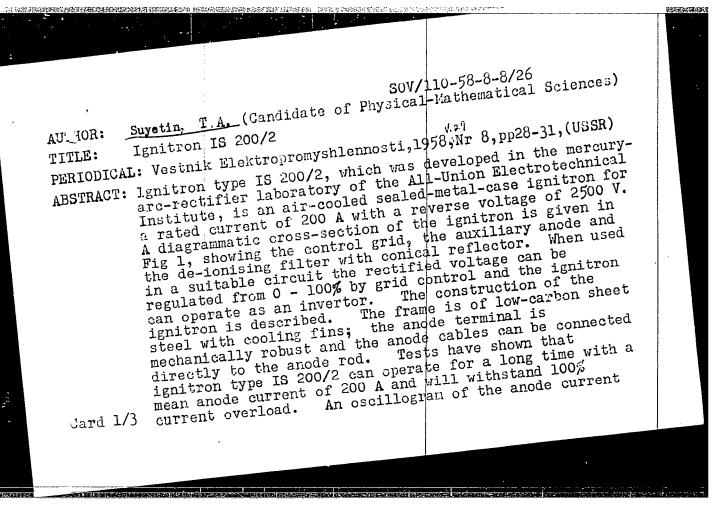
TITLE: IS 110/10 x 6 Air-Cooled Rectifier

PERIODICAL: Elektr. i teplovozn. tyaga, 1958, Nr 4, pp 11-13

ABSTRACT: A new air-cooled rectifier intended for railroad-traction substations has been developed by VEI and, after testing, installed for tentative operation. The unit has a rated current of 500 amp at 3,300 v and comprises 6 sealed metal IS 110/10 ignitrons (average current 100 amp, maximum reverse voltage 10 kv) mounted on a common frame with a cooling fan. Auxiliary and control equipment is mounted in a separate cabinet.

A.A.S.

Card 1/1



Ignitron IS-200/2

and voltage, given in Fig 2a, shows that for instantaneous current values of up to 1000 amps the drop in the arc does not exceed 16 V. Rig tests have shown that the ignitron operates reliably without backfiring on a phase voltage of 900 V with intensive grid control. The operating conditions during power tests may be judged from the oscillogram, Fig 2b, taken with an inductive-active load with a secondary phase voltage of 900 V during 50% anode current overload with grid control. The ignitron operated reliably under these conditions. The main electrical characteristics of the ignitron are tabulated and a photograph of it is given in Fig 3.

Card 2/3

Ignitron IS-200/2

SOV/110-58-8-8/26

A rectifier made up of six ignitrons ignited by an electromagnetic circuit with saturating chokes was installed in a sub-station of the Moscow Tram and Trolleybus system and has worked well for about 20,000 hours. Experience shows that the life of ignitron IS-200/2 should be at least five or six years.

There are 3 figures.

SUBMITTED:

April 2, 1958

1. Rectifiers--Design 2. Rectifiers--Operation

3. Title: Ignitron

Card 3/3

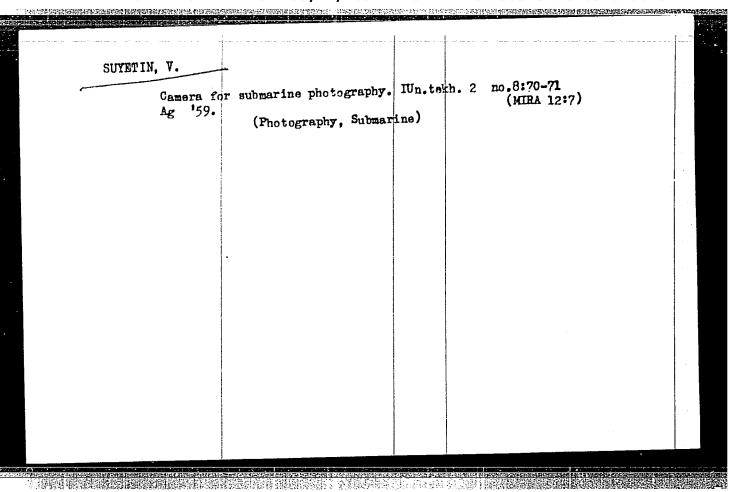
Kh.Ya., i KRASKOVSK inzh.; RA	nzh.; DUBROVSKIY AYA, S.N., inzh. KOV, V.A., inzh.	, Z.M., inzh.; KAT; OSIPOV, S.I., in	ekhn.nauk; BYSTRITSKIY, FKOV, B.S., inzh.; rzh.; PERTSOVSKIY, M.L., and.tekhn.nauk; SIYETIN, tekhn.red.	
ignitrons	J Elektrovozy pe d. V.A.Rakova. 1	rating on alternat eremennogo toka s Moskva, Gos.transr locomotives)	ing current with ignitronami. Pod ob- o.zhel-dor.izd-vo. 1959. (MIRA 12:10)	
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8(2)	
AUTHORS:	Sakovich, A. A., Candidate of SOV/105-59-1-17/29
	Technical Sciences, Suyetin, T. A.,
	Candidate of Physico-Mathematical Sciences
TITLE:	Investigation of Type IVS 100/15 Soldered Ignitrons
	(Issledovaniya zapayannykh ignitronov tipa IVS 100/15)
PERIODICAL:	Elektrichestvo, 1959, Nr 1, pp 68-72 (USSR)
ABSTRACT:	The ignitrons of type IVS 100/15 have a maximum cutoff voltage of 15 kv, a medium anode current of 100 a, an
	admissible overload up to 300% at intermittent load, and up to 1600 a during one or two helf-cycles. After having completed the testing of the experimental types in the laboratory, the
	limiting parameters of the valves were determined. In the experiments were taking part: N. M. Maslennikov, S. M.
	Luzhanskiy, V. P. Nadgornyy, Ye. P. Shmarina, L. I. Luzhansk and I. V. Blond. Data were obtained for determining
	operational characteristics. Then these valves were used for the aggregates of the railroad substations on railroad main
	lines (Ref 1), for high-voltage rotary converters and for a
Card 1/3	number of other aggregates. Working conditions for the valv
G970 1/3	in the converter connection scheme are determined not only

SOV/105-59-1-17/29 Investigation of Type IVS 100/15 Soldered Ighitrons scheme works in short-oircuit cretation or in rectifierinverter operation (the so-called circular scheme). This scheme was used for investigating the parallel operation of valves and the reliability of their work in continuous operation .- In the course of investigations, a number of new menomena was detected. In high currents, the valves convinued working after switching of the ignition circuit. The elimination of the harmful phenomena required a careful working out and adjustment of the control scheme. Special aifficulties arose in the morning out of measures to protect the control scheme from overvoltage. Very extensive were the investigations to eliminate falures to ignite. It was found that in case of soldered valves of the present type the arcbacks occur with a decrease of the coolant temperature. It was found that the valves dan stand current overloads up to 10 kg occurring in disturbances, without any trouble to the vacuum and without any deterioration of the electric parameters. There are 5 figures and 2 Soviet references. SUBMITTED: June 11, 1958 Card 3/5

SUYETIN, T.A., kand.fiziko-matematicheskikh nauk; BORODAVCHENKO, P.M., YAKOVLEV, A.N., inzh.	
Mercury arc rectifier for industrial installations. Vest.elekt 31 no.3:7-11 Mr '60. (Electric current rectifiers)	roprom. 3:6)

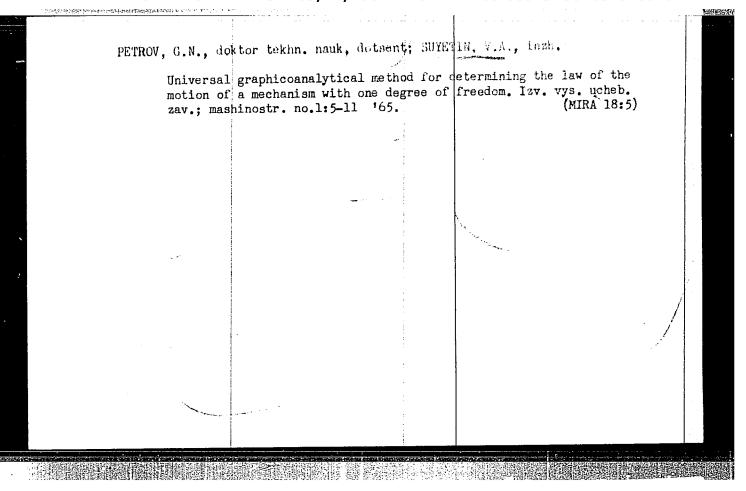
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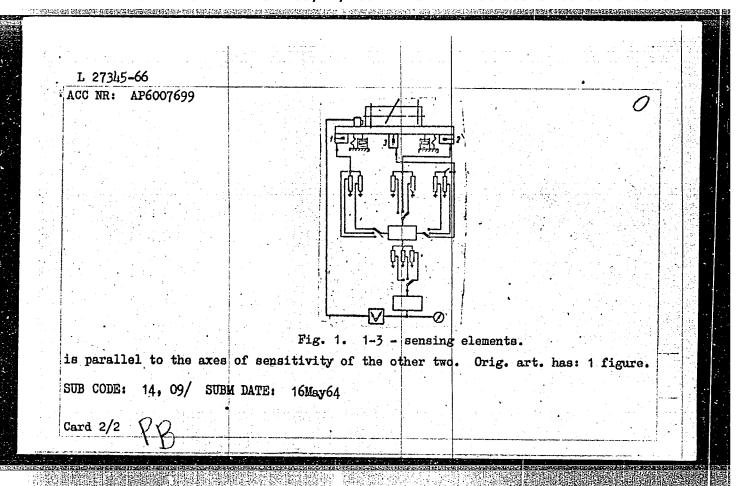
CC NR: AP6023341	(N)	SOURCE CODE	: UR/0029/66/000/004/0020	0/0021
UTHOR: Suyetin, V. (E	ngineer)			
RG: none	•			
ITLE: A suit for visi	ting Neptune		·	
OURCE: Tekhnika-molode	ezhi, no. 4, 1966,	20-21		
OPIC TAGS: diving equ	ipment, underwater	equipment		
nampiam. Militia .		young neon	le. It describes the cons	struc-
BSTRACT: This is an a	rticle intended for	700	-th -stor container which	tha
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ion of a simple skin-dieader can build. A water ticularly in cold we nich to make a rubberianderclothes. It completes box is made of clear watch mechanism) is may hand by the amateur.	tving suit and a cater suit is needed ather. A pattern i zed fabric suit. Tetely insulates the plastic. The deptore complicated in A flashlight cove	mera and de for protrac s given for he suit is body from h meter con design than	pth meter container which ted skin-diving operations cutting out four pieces f designed to be worn over withe water. The camera con	the  interpolation  the control of t
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BARKOV, L.M.; SUYETIN, V.A.		<u> </u>	
Elactron-optical system of the	tem with diffraction gra i tkeh. eksp. 8 no.5:1	tings for measuring 196-197 S-0 '63. (MIRA 16:12)	
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AUTHORS: Petrov, G. N.; Nikolayevskiy, Ye. V.; Suyetin, V. A.; Ustinov, A. P.; Kozlyaninov, T. P.; Kazakov, B. R.
ORG: none  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing three-dimensional mechanisms with nonparallel  TITLE: A device for balancing thr
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 79
ABSTRACT: This Author Certificate presents a device for balancing three-dimensional mechanisms with nonparallel rotation axes of the components. The device contains a mechanisms with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design platform with six degrees of freedom and a measuring unit (see Fig. 1.).
unbalance sensing elements. The axis of sensitive unbalance sensing elements.



51-4-3-27/30 Balakov, V.V. and Savetin, V.F. AUTHORS: Optical Transmission of Monctrystalline Germanium TITLE: (Opticheskoye propuskaniye monokristallicheskogo gernaniya.) PERIODICAL: Optika i Spektroskopiya, 1948, Vol. IV, Mr. 3, pp 415-416 (USSR) The authors measured transmission of germanium ABSTRACT: monocrystals prepared by the State Institute for Rare Metals, which differed in their resistivity and type of conduction. The samples were in the form of plane-parallel plates of 8 mg thickness. Measurements were made using an infrared spectrophotometer IKS-2. The sample with the highest resistivity (No.5) was regarded as a standard and its spectral transmission curve was measured. Transmission of other samples was measured relative to this standard. Type of conduction and resistivity of the samples studied are given in the table on p.416. Fig.1 shows dependence of the coefficient of transmission T on the wavelength in microns. Transmission of the first six samples is given by one curve (purve 1 in Fig.1). Card 1/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001654020018-4"

51-4-3-27/30 Optical Transmission of Monocrystalline Germanium Curve 2 in Fig.1 represents samples Nos.7 and 8. Curves 3, 4 and 5 represent transmission of samples Nos.9, 10 and 11 respectively. Crystals with the same resistivity show higher transmission if they are of electron conduction type than the crystals with hole conduction. In the hole-type crystals dependence of the optical transmission on resistivity is greater than in the electron-type crystals. Smallness of the transmission coefficient (44-46%) is due to large losses on reflection at the two surfaces of germanium plates (the losses amount to about 36% of the incident light at each surface). Fig.2 shows transmission of a germanium plate, 2.2 mm thick, before (curve 1) and after (curve 2) deposition of a At the maximum of the anti-reflection layer of ZnS. action of the ZnS layer, transmission of germanium indreases considerably and meaches 94-95%. By deposition of a layer of ZnS on silicon, the optical transmission of the latter can be also improved and There are 2 figures, 1 table and made to reach 90%. 2 Sowiet references. Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001654020018-4"

Optical Transmission of Monocrystalline Germanium  ASSOCIATION: State Optics Institute impai S.I. Vavilov (Gostalarstvennyy optichaskiy Insultate im. S.I. Vavilova.)  SUBLITTED: July 13, 1957.  1. Germanium crystals-Optical 2. Transmission 3. Trans-
(Gosularstvonnyy optichaskiy knavibut im. S.I. Vavilova.) SUBLITIED: July 13, 1957.
1. Germanium crystals Optical 2. Transmission 3. Trans-
missionMeasurement 4. SpectrophotometersApplications
Card 3/3

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I	NVENTORS: Baranov, V. K.	; Protasov, N. N.; Krylova, T. N.; Suyetin, V. F.
0	RG: none	
T	TITLE: A method for prepare	ring a selectively reflecting mirror. Class 32,
		myshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 73
T	COPIC TAGS: zinc compound	, magnesium compound, nickel, chromium, titanium compound, radiation
1	reflecting mirror. The m	rtificate presents a method for preparing a selectively ethod involves consecutive deposition of the interference magnesium fluoride, or of titanium dioxide and silicon
		of the interference layers. To absorb radiation passed ng, the metallic undercoat is previously covered with an
	absorbing layer of rough	nickel or of rough chromium.
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SUYETIN, V. YE.		Carri a aggre	ding to an experiment	on chicks,
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SUYETIN, Yu.K.					
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Ultraviolet	microscopy and cytophotometry itions and following X irradiat	of the bone marrow under ion. Biofizika 3 no.1: (MIRA 11:2)	
	forfologii zhivotnykh im. A.N.	Severtsova AN SSSR,	
Moskva. (MA	RROW) (X RAYS—PHYSIOLOGICAL:	REFECT) (NUCLEIC ACIDS)	
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24(0) SOV/20-59-124-2-56/71 AUTHORS: Brodskiy, V. Ya., Grayevskiy, E. Ya., Suyetina, I. A. TITLE: On the Ways of Action of the Ionizing Radiation on the Content of Free Nucleotides and Nucleosides in the Bone Marrow Cells (O putyakh vliyaniya ioniziruyushchey radiatsii na soderzhaniye svobodnykh nukleotidov i nukleozidov v kletkakh kostnogo mozga) PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol. 124, Nr 2, pp 440-443 (USSR) ABSTRACT: Nucleic compounds are early and easily depolymerized in the organism if radiation reaction develops. In vitro relatively small doses of irradiation are sufficient (Refs 4,8,10). The synthesis of nucleic acids is disturbed in directly irradiated as well as in screened body parts (Refs 11-13). Several investigations (Refs 14-16) have shown that the damage of the cells due to irradiation is not directly connected with the preceding change of the amount of nucleic acids. It had to be determined whether the changes of the content of free nucleotides is due to local irradiation effects or to remote action. Experiments were carried out with white mice of both sexes. They were irradiated with 700 r X-rays. The following variants were applied: 1) total irradiation; 2) irradiation of the right part of the body; 3) irradiation of one back extremity; Card 1/3 4) screening of both back extremities with lead plates of a

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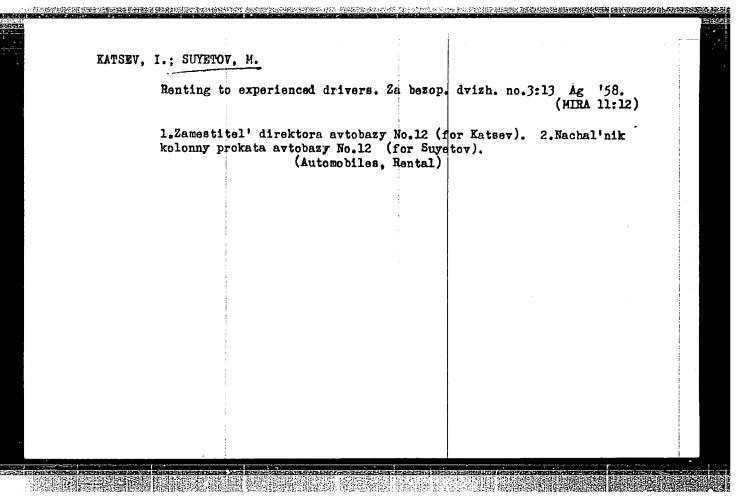
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AUTHORS:	Dzhamalov, S.A., Suyetno	v, V.V.		419
TITLE:	Geothernal gradient and neutral layer	temperature drop i	n the	
PERIODICAL:	Referativnyy zhurnal. Ge abstract 8 A 58. (Tr. Ge AN SSSR, 2, 1960 (1961).	eol. in-ta Dagestan	2, 11, sk. fil.	1
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MALININA, K.A.; SMOL'NIKOV, Ye.A.; SUYETOV, A.P.; RADAYEVA, A.A.; LUNEVA, Z.S.; KUKOLEV, V.V.; SOKOLOVSKATA, V.V.; LEBELEVA, Ye.A.; UVAROVA, A.P., tekhn.red.

[Technological operations in the manufacture of metal-cutting tools; instructions] Tekhnologiia isgotovleniis metallorezhmshchikh instrumentov; rukovodiashchie materialy. Moskva, Gos. nauchno-tekhn.isd-vo mashinostroit.itt-ry. No.7. [Heat treatment] Termicheskaia obrabotka. 1960. 127 p.

[NIRA 13:6]

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	Oceanographic investigations in th December 1953. Trudy Inst. okean. 1	(MIRA 13:3)	
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s/639/\$2/000/000/001/002 B144/B186 Suyetova, I. A. AUTHOR: Cartometry of Antarctica TITLE: Antarktika; doklady Komissii [t. 2] 1961. Mezhduved. kom. po izuch. Antarktiki AN SSSR. Moscow, Izd-vo AN SSSR, 1962, SOURCE: 7 - 11 TEXT: The surface area of Antarctica was calculated from the 1:3,000,000 "Map of Antarctica" of the Soyuzmorniproyekt, edited 1961 by B. V. Dubovskiy, and compared with the data of P. H. Kosack ("Wie gross ist das Suedpolargebiet?" ("How large is the South Polar Region?"), Petermanns Geographische Mitteilungen, 94. Jahrgang, 1950), based on a 1:4,000,000 map. The methods of calculation are described. To arrive at an exact definition, the surface areas should be determined as follows: (1) Continent (A) without ice shelves (B), without islands connected by these ice shelves with the continent (C), and without islands within the range of the continental sand banks (D); (2) A + B + C, without D; (3) A + C; (4) A + C + D; (5) A + B + C + D; (6) A + shelf. The surface Card 1/2

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Z/011/62/019/001/007/017 E073/E136 Lebedev, A.Kh. and Suykin, N.I. AUTHOR: Catalytic alkylation of tetralin in the presence of TITLE: metallic aluminium PERIODICAL: Chemie a chemická technologie. Přehled technické a hospodárské literatury, v. 19, no 1, 1962, 32, abstract Ch 62-439. (Neftekhimiya, v.1, no.1, 1961, 39-45). The conditions of alkylation of tetralin with n-butyl-, n-heptyl- and n-octylbromide in the presence of metallic aluminium were studied. The main reaction products were 6-alkyltetralin in addition to 6,7-dialkyltetralin. The length of the chain had no influence on the position of the substituent Abstractor's note: In the original Russian paper this last sentence reads: The chain length has no influence on the yield of 6-alkyltetralin. The Czech abstract is probably wrong.] 4 tables, 47 references. [Abstractor's note: Complete translation.] Card 1/1 

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AUTHORS: Sviridova, A. I. and Suykovskaya, N. B.

TITLE: Properties of ZrCl<sub>4</sub> and ThCl<sub>4</sub> solutions in ethyl almodel cohol

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 2, 1962, 280-285

TEXT: Solutions containing 0.02 - 2.0 g moles ZrCl<sub>4</sub> and 0.5 - 1.5 g moles ThCl<sub>4</sub>/1 EtOH were studied in view of their practical and theoretical interest. The effects of concentration on the stability, acidity, refractive indices and specific and molar conductivities were investigated. The acidity, determined by titration with ties were investigated. The acidity, determined by titration with the swere investigated almost linearly with concentration, except for a positively curved portion between 0.8 and 0.9 g mole chloride a positively curved portion between 0.8 and 0.9 g mole chloride per liter. ZrCl<sub>4</sub> solutions were more acid than those of ThCl<sub>4</sub>. Si-

milar increases of the refractive index and specific conductivity were observed when portion and a maximum respectively at 0.8 - 1.0 g mole chloride/l;

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